NOTE: THIS JOB PRINTS IN PANTONE 583 GREEN AND PANTONE 253 PURPLE.

PLEASE OUTPUT FILM
FOR MAGENTA (WHICH
WILL BE THE PANTONE
253 PURPLE PLATE) &
YELLOW (WHICH WILL
BE THE PANTONE 583
GREEN PLATE).
MAGENTA AND YELLOW
PLATES WILL CREATE
THE BROWN COLOR.

Created on the Macintosh in QuarkXpress 3.1 4x9 saddle stitch booklet suggested paper - 70lb Becket Concept Glacier Mist for inside 80lb cover for the cover IN 1995, CALIFORNIANS REACHED A MILESTONE WHEN 25 PERCENT OF THE STATE'S SOLID WASTE WAS REUSED, RECYCLED, OR OTHERWISE DIVERTED FROM LANDFILLS. THE INTEGRATED WASTE MANAGEMENT BOARD IS HELPING MOVE THE STATE TO THE NEXT GOAL-CUTTING HALF THE TRASH BY THE YEAR 2000.

"GREEN WASTE" SUCH AS GRASS
CLIPPINGS COMPRISES 15 PERCENT OF
THE WASTE GENERATED EACH YEAR,
SO GRASSCYCLING AND COMPOSTING
ARE BIG STEPS IN REACHING THAT
GOAL-AND HELP YOUR LAWN AND
GARDEN AS WELL!

California Environmental Protection Agency

Integrated Waste Management Board .http://www.ciwmb.ca.gov

Designer Diane Oleary

Publication 500-94-014 Revised April 1997

Copyright 1994 by the Integrated Waste Management Board. All rights reserved.

The Integrated Waste Management Board (IWMB) does not discriminate on the basis of disability in access to its programs. IWMB publications are available in accessible formats upon request by calling the Public Affairs Office at (916) 255-2296. Persons with hearing impairments can reach the IWMB through the California Relay Service, 1-800-735-2929.

What is Composting and Why Do It?

Composting, nature's way of recycling, is the controlled decomposition of organic material such as leaves, twigs, grass clippings, and vegetable food waste.

"Compost" is the valuable soil product that results from proper composting.

Composting helps to keep the high volume of organic material out of our landfills and turns that material into a useful product. With organics making up more than half of California's municipal waste, on-site composting reduces the cost of hauling garbage and operating landfills.

Compost is great for gardens and landscaping and you save money by not having to buy soil conditioners, mulch, and fertilizer.

COMPOSTING CAN BE EASY

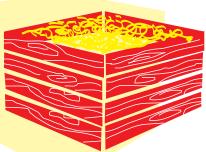
Composting can be practiced in most backyards in a homemade or manu-

factured composting bin,

or simply an open pile (some cities do require enclosed bins).

Businesses, schools, and other facilities can also easily compost. Contact your city or county government for information

about free composting workshops and discounted or free composting bins.



WOODEN PALLETS

Printed On Recycled Paper



Homemade bins can be constructed out of scrap wood, chicken wire, snow fencing or even old garbage cans (with holes punched in the sides and bottom).

Manufactured bins include turning units, hoops, cones, and stacking bins; these can be purchased from retail or mail-order businesses. Take the time to consider your options and then select a bin that best fits your needs.

For a description of how to build your own bin, or a list of premanufactured home composting bins, call the California Integrated Waste Management Board at 1-800-553-2962.

RECIPE FOR COMPOSTING

There are four basic ingredients for composting: nitrogen, carbon, water, and air. The easiest compost recipe calls for:

- Layering or mixing roughly equal parts of green material (which is high in nitrogen) and brown or dry material (which is high in carbon) in a pile or enclosure.
- Watering.
- Fluffing to add air.
- Letting microorganisms and insects break down the material over time.

NITROGEN

Green materials such as grass clippings, landscape trimmings, and garden waste are ideal sources of nitrogen (once they dry out they become a carbon source). Vegetable and fruit trimmings and peels can also provide nitrogen. To reduce the potential for pests or odors, it is best to avoid meat or dairy scraps and bury other food scraps deep within the compost pile.

CARBON

Brown (dry) yard and garden material such as dry leaves, twigs, or hay can provide the carbon balance for a compost pile. Chop or shred large pieces to 12 inches or shorter (thick, woody branches should be chipped, ground up, or left out).

Untreated wood chips and sawdust are a powerful carbon source which may be useful if the pile contains excess nitrogen.

WATER

Your compost pile should be "moist as a wrung out sponge." A moisture content of 40 to 60 percent is preferable. To test for adequate moisture, reach into your compost pile and grab a handful of material and squeeze it; if a few drops of water come out, it's probably got enough moisture, if it doesn't, add water.

When you water, it is best to put a hose into the pile so that you aren't just wetting the top. You can also water as you are turning the





pile. During dry weather, you may have to add water regularly. During wet weather, you may need to cover your pile. A properly constructed compost pile will drain excess water and not become soggy.

AIR

The bacteria and fungus that are in your compost pile need oxygen to live and work. If your pile is too dense or becomes too wet, the air supply to the inside is cut off and the beneficial organisms die. Decomposition will slow and an offensive odor may arise. To avoid this and speed the process, turn and fluff the pile with a pitch fork. You can also turn the pile by just repiling it into a new pile. Many compost bins come apart to make repiling easier. You simply move the bin and repile your material back into it.

SIZE

Ideally, the compost pile should be at least three feet wide by three feet deep by three feet tall (one cubic yard). This size provides enough food and insulation to keep the organisms warm and happy and working hard. However, piles can be larger or smaller and work just fine if managed well.



GETTING TO COMPOST

TIME, TEMPERATURE, AND STYLE

Composting can be done "gourmet" style, requiring more effort, with quick resultsor can be done more casually. Both ways will have a positive effect on the environment and produce usable compost. It just depends on how much time you want to spend with your compost pile and how fast you want the compost.

"Gourmet" compost piles that have the right blend of nitrogen (greens) and carbon (browns) and are kept moist and fluffed regularly, will heat up to temperatures of 120 to 140 degrees Fahrenheit. The high temperature will kill most weed seeds and speed up the decomposition process so that the compost may be ready in 2 to 3 months or less.

"Casual" compost piles are also quite workable since compost will "happen" even if you just pile on yard and food waste, water sporadically, and wait. The pile won't get as hot, so it won't decompose as quickly and may not kill weed seeds. Casual composting can take several months.

How to Tell When It's Done

Your compost is finished when the original material has been transformed into a uniform, dark brown, crumbly product with a pleasant, earthy aroma. There may be a few chunks of woody material left; these can be screened out and put back into a new pile.

You may want to stop adding to your compost pile after it gets to optimal size (see page 5) and start a new pile so that your first pile can finish decomposing (during which time the temperature will drop).

GIVE IT A TRY!

Home composting is best learned by doing. Through practice and observation you will find what works best for your home situation, and you can modify the process to suit your needs. There are also a number of books written on backyard composting; check your local library or bookstore. Also check with your local government for workshops, handouts, or guides on composting.

6



OTHER WAYS TO REDUCE ORGANIC WASTE

In addition to composting, you can also help reduce organic waste by grasscycling (leaving grass clippings on the lawn when you mow) and vermicomposting (composting with worms).

For additional information about these topics, contact your local recycling coordinator or call the Integrated Waste Management Board hotline at 1-800 553-2962 (CA only). And please visit the Board's landscaping waste prevention web site at http://www.ciwmb.ca.gov/mrt/wrt/wpw/wporgnc/wporgan1.htm

TROUBLE SHOOTING GUIDE FOR HOME COMPOSTING

| SYMPTOM | PROBLEMS | SOLUTION |
|--|---|---|
| The pile smells bad | Not enough air; too much moisture | Turn the pile; add dry materials |
| The pile will not heat up | Not enough moisture | Add water |
| | Pile size is too small | Collect more materials and build to at least 3'x3'x3' |
| | Lack of nitrogen- rich material | Mix in fresh manure, grass clippings or fruit/vegetable scraps |
| | Particle size is too big | Chop or grind materials |
| The pile attracts flies, rodents, or pets | Pile contains bones, meat, fatty or starchy foods | Alter materials added to pile; bury fruit/ vegetable scraps in the middle of the pile |





INTEGRATED WASTE MANAGEMENT BOARD

8800 CAL CENTER DRIVE SACRAMENTO CALIFORNIA 95826